## INSTRUCTIONS TO FABRICATOR

PROJECT PLANS SHOW:

1. Sign structure location.
2. Length of structure frame.
3. Panel size and locations on structure.
4. Walkway length for two post signs.
5. Post type and height to bottom of frame.
6. Base plate elevation.
7. Footing elevation or location of pile foundation.
8. Photoelectric unit location if required.

REFER TO THE FOLLOWING STANDARD PLANS FOR DETAILS NOT SHOWN ON PROJECT PLANS:

| Sheet # | SHEET TITLE |
|---|---|
| RSP S1 | Overhead Signs-Truss, Instructions and Examples |
| NSP S2A | Overhead Signs-Truss, Single Post Type, Post Types II to IX |
| NSP S2B | Overhead Signs-Truss, Single Post Type, Base Plate and Anchorage Details |
| NSP S3A | Overhead Signs-Truss, Two Post Type, Post Types I-S through VII-S |
| NSP S3B | Overhead Signs-Truss, Two Post Type, Base Plate And Anchorage Details |
| NSP S3C | Overhead Signs-Truss, Gusset Plate Details |
| NSP S4A | Overhead Signs-Truss, Single Post Type, Structural Frame Members Details No. 1 |
| NSP S4B | Overhead Signs-Truss, Single Post Type, Structural Frame Members Details No. 2 |
| RSP S5 | Overhead Signs-Truss, Two Post Type, Structural Frame Members |
| RSP S6 | Overhead Signs-Truss, Structural Frame Details |
| RSP S7 | Overhead Signs-Truss, Frame Juncture Details |
| RSP S8A | Overhead Signs, Steel Frames, Removable Sign Panel Frames |
| RSP S8B | Overhead Signs-Removable Sign Panel Frames, Mounting Details |
| RSP S8C | Overhead Signs-Truss, Sign Mounting Details, Laminated Panel-Type A |
| RSP S8D | Overhead Signs-Truss, Removable Sign Panel Frames, 2794 mm and 3048 mm Sign Panels |
| RSP S9 | Overhead Signs, Walkway Details No. 1 |
| RSP S10 | Overhead Signs, Walkway Details No. 2 |
| NSP S10A | Overhead Signs, Walkway Details No. 3 |
| RSP S11 | Overhead Signs, Walkway Safety Railing Details |
| NSP S13A | Overhead Signs-Truss, Single Post Type, Square Pedestal Pile Foundation |
| NSP S13B | Overhead Signs-Truss, Single Post Type, Round Pedestal Pile Foundation |
| NSP S13C | Overhead Signs-Truss, Two Post Type, Square Pedestal Pile Foundation |
| NSP S13D | Overhead Signs-Truss, Two Post Type, Round Pedestal Pile Foundation |

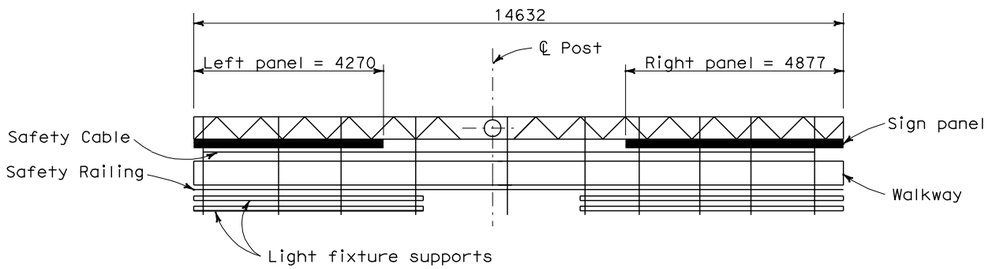
WALKWAY BRACKETS:
Space all walkway brackets maintaining uniform spacing where possible. Maximum spacing shall not exceed 1676 mm.

LIGHTING FIXTURE SUPPORTS:

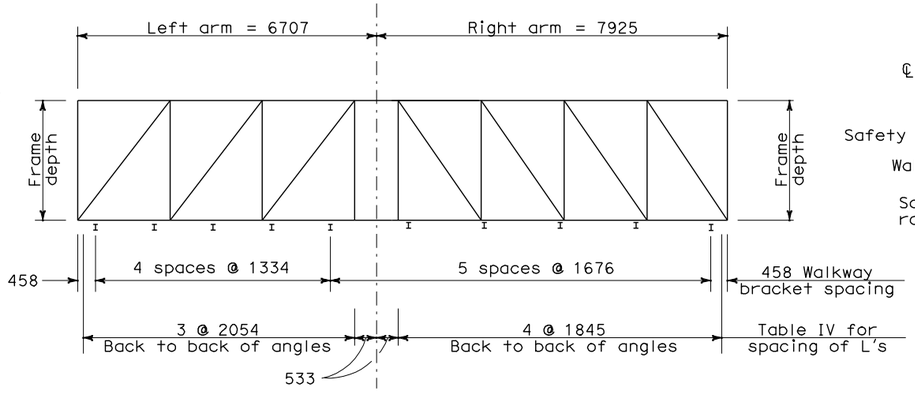
Where distance from walkway bracket to end of sign panel exceeds 406 mm, extend lighting fixture supports to next walkway bracket. See Example No. 2.

WALKWAY AND SAFETY RAILING:

Walkway to be continuous for entire length of frame for single post signs. For two post signs, see Project Plans. Safety railing to protect entire walkway, but continuous for no more than 3353 mm in one unit.

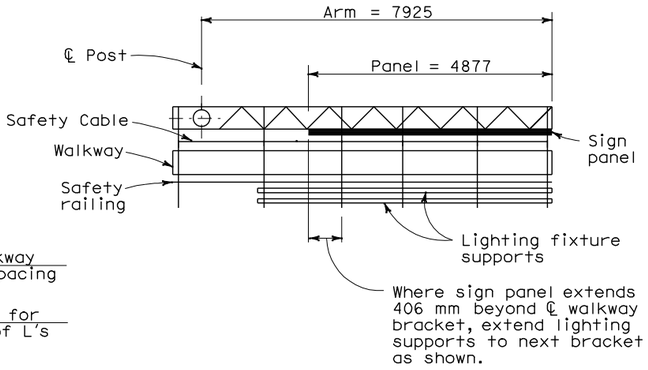



PLAN




## UNBALANCED SINGLE POST TYPE

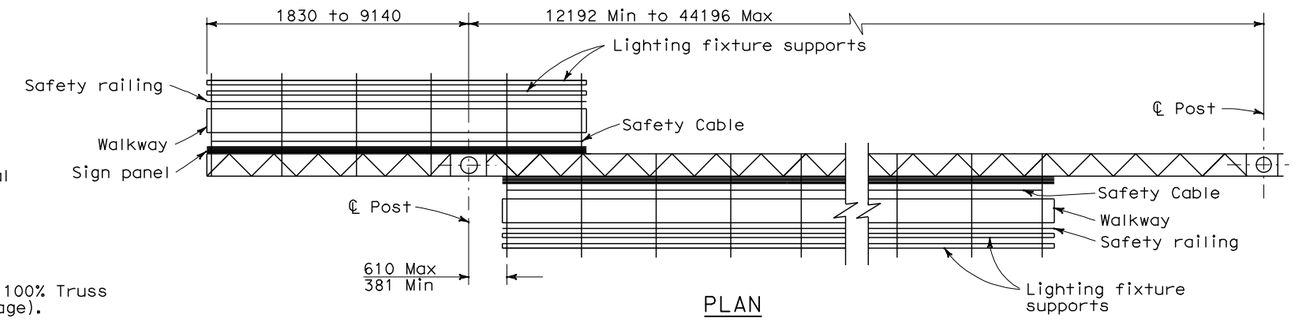
Example No. 1




PLAN

## CANTILEVER SINGLE POST TYPE

Example No. 2




PLAN

## TWO POST TYPE WITH CANTILEVER (PART DOUBLE-FACED)

Example No. 3

## GENERAL NOTES

DESIGN:

AASHTO Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, dated 2001.

CONSTRUCTION:

Standard Specifications and the Special Provisions.

LOADING:

WIND LOADING:

Normal to face of sign: 1930 Pa on 100% Truss surface area (i.e. 100% panel coverage).

Transverse to face of sign: 20% of normal force.

WALKWAY LOADING:

Dead load +229 kg concentrated live load.

UNIT STRESSES:

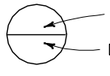
STRUCTURAL STEEL: fy = 250 MPa
REINFORCED CONCRETE: fy = 415 MPa
f'c = 25 MPa
FOOTING SOIL PRESSURE: 120 kPa (spread footing)

MINIMUM CLEARANCE

Vertical roadway clearance 5500 mm.

WELDING:

All welding continuous unless otherwise noted on the plans. All welding to be done in accordance with the Standard Specifications.




NOTE
Signs are shown and dimensioned looking in the direction of traffic. Double faced signs are shown and dimensioned looking ahead along stationing.

| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| | | | | | |

REGISTERED CIVIL ENGINEER

December 30, 2004
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Tillat Sattar — No. C42892 — Exp 03-31-2006 — CIVIL — STATE OF CALIFORNIA

*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To get to the Caltrans web site, go to: http://www.dot.ca.gov

*To accompany plans dated* _____

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# OVERHEAD SIGNS-TRUSS INSTRUCTIONS AND EXAMPLES

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

RSP S1 DATED DECEMBER 30, 2004 SUPERSEDES
RSP S1 DATED OCTOBER 26, 2000 AND STANDARD PLAN S1
DATED JULY 1, 1999-PAGE 218 OF THE STANDARD PLANS BOOK DATED JULY 1999.

# REVISED STANDARD PLAN RSP S1

1999 REVISED Std PLAN RSP S1

218

12-30-04